



**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q83533

Masakazu SATO, et al.

Appln. No.: 10/518,788

Group Art Unit: 1623

Confirmation No.: 9875

Examiner: JIANG, Shaojia A.

Filed: December 21, 2004

For: ARYL 5-THIO-B-D-GLUCOPYRANOSIDE DERIVATIVES AND THERAPEUTIC AGENTS FOR DIABETES CONTAINING THE SAME

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed (without a Statement Under 37 C.F.R § 1.97(e)) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, Notice of

INFORMATION DISCLOSURE STATEMENT  
U.S. Appln. No.: 10/518,788

Atty. Docket No.: Q83533

Allowance, or an action that otherwise closes prosecution in the application (whichever is earlier), and therefore the USPTO is directed and authorized the statutory fee of \$180 and all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of two Communications from a foreign patent office in a counterpart application citing such documents, together with an English-language version (if not already included) of at least that portion of the Communication indicating the degree of relevance found by the foreign patent office.

In addition, EP 1213296, EP 1270584, EP 1338603, US 2004/0063646, EP 850948, and US 2006/019489 are English language counterparts of WO 01/16147, WO 01/68660, WO 02/36602, WO 02/053573, JP 10-237089, and WO 2004/089967, respectively.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

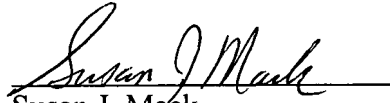
Respectfully submitted,

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**23373**

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Date: April 16, 2007

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/518,788
Confirmation Number	9875
Filing Date	December 21, 2004
First Named Inventor	Masakazu SATO
Art Unit	1623
Examiner Name	JIANG, Shaojia A.
Attorney Docket Number	Q83533

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 2006/0194809	A1	08-31-2006	KAKINUMA, H., et al.
		US 2004/0063646	A1	04-01-2004	FUJIKURA, H. et al.
		US			
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		WO	01/16147	A1	03-08-2001	Kissei Pharmaceutical Co., Ltd.	Abstract
		EP	1213296	A1	06-12-2002	Kissei Pharmaceutical Co., Ltd.	
		WO	01/68660	A1	09-20-2001	Kissei Pharmaceutical Co., Ltd.	Abstract
		EP	1272584	A1	01-02-2003	Kissei Pharmaceutical Co., Ltd.	
		WO	01/74834	A1	10-11-2001	Bristol Myers Squibb Co.	
		WO	01/74835	A1	10-11-2001	Bristol Myers Squibb Co.	
		WO	02/36602	A1	05-10-2002	Ajinomoto Co., Inc.	Abstract
		EP	1338603	A1	08-27-2003	Ajinomoto Co., Inc.	
		WO	02/053573	A1	07-11-2002	Kissei Pharmaceutical Co., Ltd.	Abstract
		JP	10-237089	A	09-08-1998	Tanabe Seiyaku Co., Ltd.	Abstract
		EP	0850948	A1	07-01-1998	Tanabe Seiyaku Co., Ltd.	
		WO	2004/089967	A1	10-21-2004	Taisho Pharmaceutical Co., Ltd.	Abstract

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation
		BOZO, E., et al. "Synthesis of 4-cyanophenyl and 4-nitrophenyl 1,5-dithio-L- and -D-arabinopyranosides possessing antithrombotic activity <sup>1,2</sup> ," <i>Carbohydrate Research</i> , 1998, 311, pages 191-202	
		RANDELL, K.D., et al. "Synthesis and glycosides inhibitory activity of 5-thioglucopyranosylamines. Molecular modeling of complexes with glucoamilase," <i>Carbohydrate Research</i> , 1999, 321, pages 143-156	
		YUASA, H., et al. "Relative Nucleophilicity of the Two Sulfur Atoms in 1,5-Dithioglucopyranoside," <i>Angew. Chem. Int. Ed. Engl.</i> , 1997, 36, No. 8, pages 868-870	
		International Search Report with mail date October 14, 2003	
		Supplementary European Search Report with mail date April 2, 2007	

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.